

# STORMWATER MANAGEMENT INSPECTION PROCEDURES

## GENERAL RULES

- \* Always stay in easement areas
- \* Walk the entire pond
- \* Pictures of every item not in compliance

## DAM

### Cracks

- vertical and horizontal

### Slump or slides

### Stabilization – no crown vetch or lespedeza

- \* no woody (trees and shrubs)
- \* no weeds (not permanent stabilization)
- \* predominantly grass cover
- \* animal Burrows (cut slopes are not part of the dam)
- \* no woody vegetation within 25' of riser structure

### New Pond (378) – after 2001

Upstream and downstream dam slope – no woody vegetation 15' from toe

## Fence

- Rails and posts not leaning
- Posts not broken
- Wire must be secured against fence
- Gate must close correctly

## Principal Spillway

### Riser and Trash rack, anti vortex device, barrel pipe through dam

#### Riser (Concrete)

- Spalling (deterioration of concrete)
- Seepage through riser walls
- Orifice plate attached securely against wall
- Manhole lids – must look inside
- Manhole steps tight against wall
- Gate valve in structure
  - Must be operational to be in compliance

#### Trash Rack Bars for concrete risers

- Recoat with galvanized paint (oxidation deteriorates trash rack)
- Bolts/nuts are corroded – must be replaced

#### Riser (Metal)

- Scaling (bituminous cracks) – brushed and recoated with bituminous
- Trash rack (bars) inside
- Anti Vortex – wobbles – possible trash rack broken
- Gate valve operational - gate valve is never open during normal operation

### Low Flow Pipe

- Open orifice (hole in front of riser)

- No trash/debris/dead vegetation/leaves
- Dewatering pipe (covered and not covered)
  - Check for stone base clogged with sediment
  - vegetation will grow in stone
- Severe growth – replace stone
- Ponding water – base of stone may be clogged

**\*\*Spraying roundup in pond is prohibited**

### **Emergency Spillway**

Clear of obstructions and maintain stabilization

**Barrel Outfall** - end section and rip rap outlet protection/stone – no obstructions

**Access Roads** into pond must be maintained

Check for erosion, stabilization

**Fore bays** - Sediment (pre-treatment areas)

Design says when 50% full, clean out

Reality – once sediment higher than storm drain, cleanout

Fore bay must be lower an invert of pipe

### **Sand Filter**

Must be level

Water normally discharged from fore bay to sand filter

If sand filter has cattails – system failed

Solution – remove sand and repair filter cloth

If black (no cattails)

Solution – if 1" thick, remove to clean sand

Check discharge (pvc pipe) going from sand filter to main reservoir

### **Pilot Channels**

Swales must not be obstructed

**Storm drain Outfalls** - must be clear of sediment and vegetation

### **Berms**

Separate bays from main reservoirs

Need to be mowed

**\*\*Berms can have wood shrubs**

### **Filter Diaphragms**

Comes in pairs

Filter diaphragms - inside dam – pipes are drain tile

Check to see if any sand coming through pipe